DEFENSE INFORMATION SYSTEMS AGENCY

Interoperability Directorate, 5600 Columbia Pike, Falls Church, VA 22041-2717

SYMBOLOGY STANDARDS MANAGEMENT COMMITTEE DIRECTIVE

SSMC NO: 2-03 **Date: July 24, 2003**

CP No: MIL00-36A | **Title: Circular Dead Space Area**

Originator, Name and Address:

PM FATDS

SSMC Action:

- ☒ **Approved**
- ☐ **Approved with Changes**
- ☐ **Withdrawn**
- ☐ **Deferred**
- ☐ **Declared Substantive**
  - **By:**
- ☐ **Disapproved**
- ☐ **Testing Required**
  - ☐ **Prior to Decision**
  - ☐ **Subsequent to Decision**
- ☐ **Allied Coordination Required**

Votes Cast/Proposed Change

Approve	Disapprove	Abstain	N/A	
☒	☐	☐	☐	**USA**
☒	☐	☐	☐	**USN**
☒	☐	☐	☐	**USMC**
☒	☐	☐	☐	**USAF**
☒	☐	☐	☐	**NIMA**
☒	☐	☐	☐	**DIA**
☐	☐	☐	☐	**DISA**

Decision:

Approved as submitted.

Chairperson

(Signature)

SYMBOLOGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM			
CHANGE PROPOSAL NUMBER		**MIL00-36A**	
ORIGINATOR	**SPONSOR**	**DATE RECEIVED**	**DATE OF ACTION**
PM FATDS	**ARMY**	**August 6, 2001**	**July 24, 2003**
CHANGE PROPOSAL TITLE			
ADD NEW SYMBOL, **DEAD SPACE AREA, CIRCULAR**			
SUGGESTED CHANGE			

The Army has a requirement to add a new symbol to MIL-STD-2525B.

1. The purpose of the Dead Space Area, Circular symbol is to graphically display to commanders in the Common Operational Picture (COP)/Common Tactical Picture (CTP) areas where fire effects for a specific unit or weapon system are constrained by terrain restrictions.
2. Recommend adding to hierarchy item 2.X.4, Fire Support, under the "Areas" hierarchy, 2.X.4.3, figure B-17, and table B-IV.

OVERVIEW

Currently, the standard does not a contain symbol depicting Dead Space Areas, Circular. In general, the Dead Space Area, Circular graphic depicts the area of the battlefield that a particular weapon or sensor system cannot engage due to restrictive terrain. Incorporation into MIL STD 2525B, which will be used in JMTK and GSD, will allow the symbol to be transmitted/received by all battlefield systems.
The Dead Space Area, Circular is a required symbol in the COP/CTP to be shared across the battlefield. The development of the COP/CTP is required of all ABCS component systems. Fire Support systems are the producer of the Dead Space Area, Circular for the COP/CTP. Fire Support systems will retain this capability for fielding throughout the Army and USMC.

OPERATIONAL DESCRIPTION

The purpose of the Dead Space Area, Circular symbol is to graphically display to commanders and operators an area within the maximum range of a weapon, radar or observer which cannot be covered by fire or observation from a particular position because of intervening obstacles, the nature of the ground, or the characteristics of the trajectory, or the limitations of the pointing capabilities of the weapons. It is used in planning, preparing, and execution of operations because it identifies areas that are naturally protected from the effects of direct fire. This allows the commander to adjust forces as necessary to cope with the dead space. The Dead Space Areas, Circular are unique to specific weapons and units. One (1) point location and a radius defined in meters are required to graphically display a circular Dead Space Area. The minimum information required to interoperate with another system is defined below.

IMPLEMENTATION

Description: **Fire Support, Areas, Target Acquisition Zones, Dead Space Area, Circular**

Parameters:
1. Anchor Points. This graphic requires one (1) anchor point and a radius. Point 1 defines the center point of the graphic.

2. Size/Shape. Size: The radius, defined in meters, defines the size. Shape: Circle. The information fields should be scaleable within the circle.

3. Orientation. Not applicable.

4. Text. Is used to identify the dead space area by weapon system or unit.

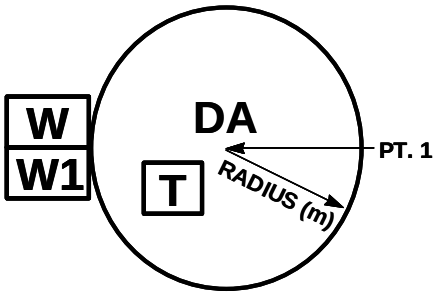
Fixed/Dynamic: Dynamic

SYMBOLOGY CONFIGURATION MANAGEMENT CHANGE PROPOSAL FORM			
CHANGE PROPOSAL NUMBER		**MIL00-36A**	
ORIGINATOR	**SPONSOR**	**DATE RECEIVED**	**DATE OF ACTION**
PM FATDS	**ARMY**	**August 6, 2001**	**July 24, 2003**
CHANGE PROPOSAL TITLE			
ADD NEW SYMBOL, **DEAD SPACE AREA, CIRCULAR**			

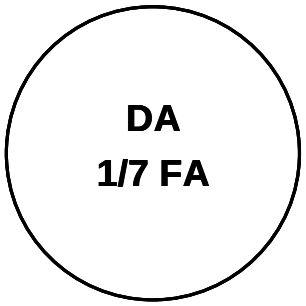
Hierarchy: 2.X.4.3.3.5.3

Symbol ID: G*F*AZDC--****X

Tactical Graphic:



Example:



JIEO ANALYSIS

See JIEO ANALYSIS MIL00-36A.doc

C/S/A COMMENTS

DECISION NOTICE

Approved at SSMC 2-03.

Attachment A

Tasks:
1. Modify Figure B-17 to reflect new hierarchy structure (Figure B-17 becomes Figures B-17.1 and B-17.2) and addition of new Fire Support graphics.

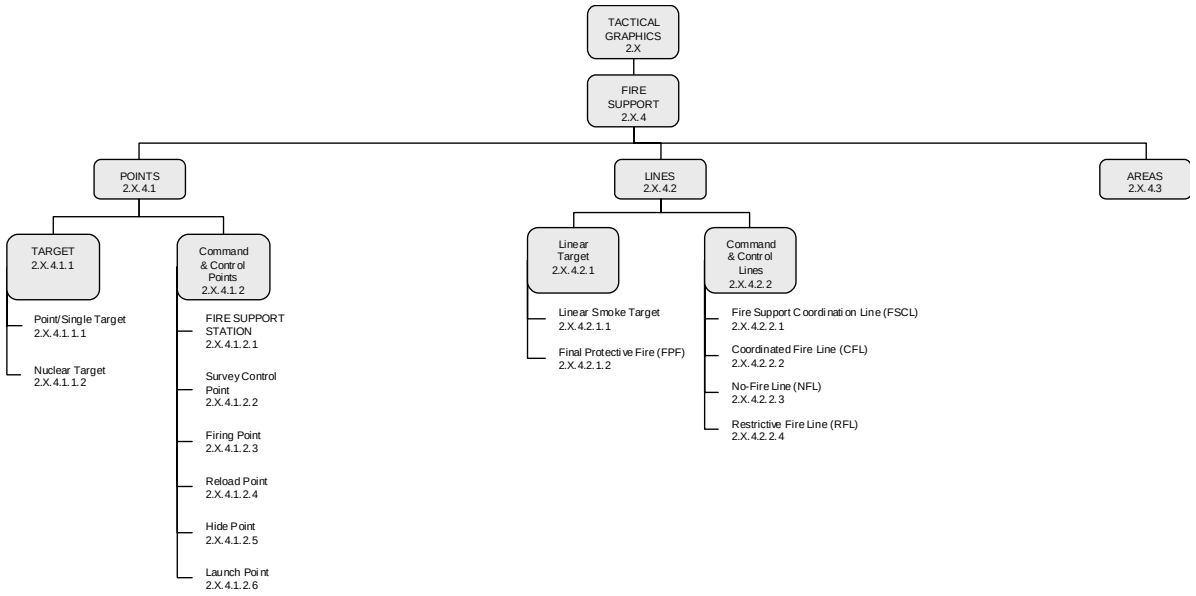


Figure B-17.1. Fire Support.

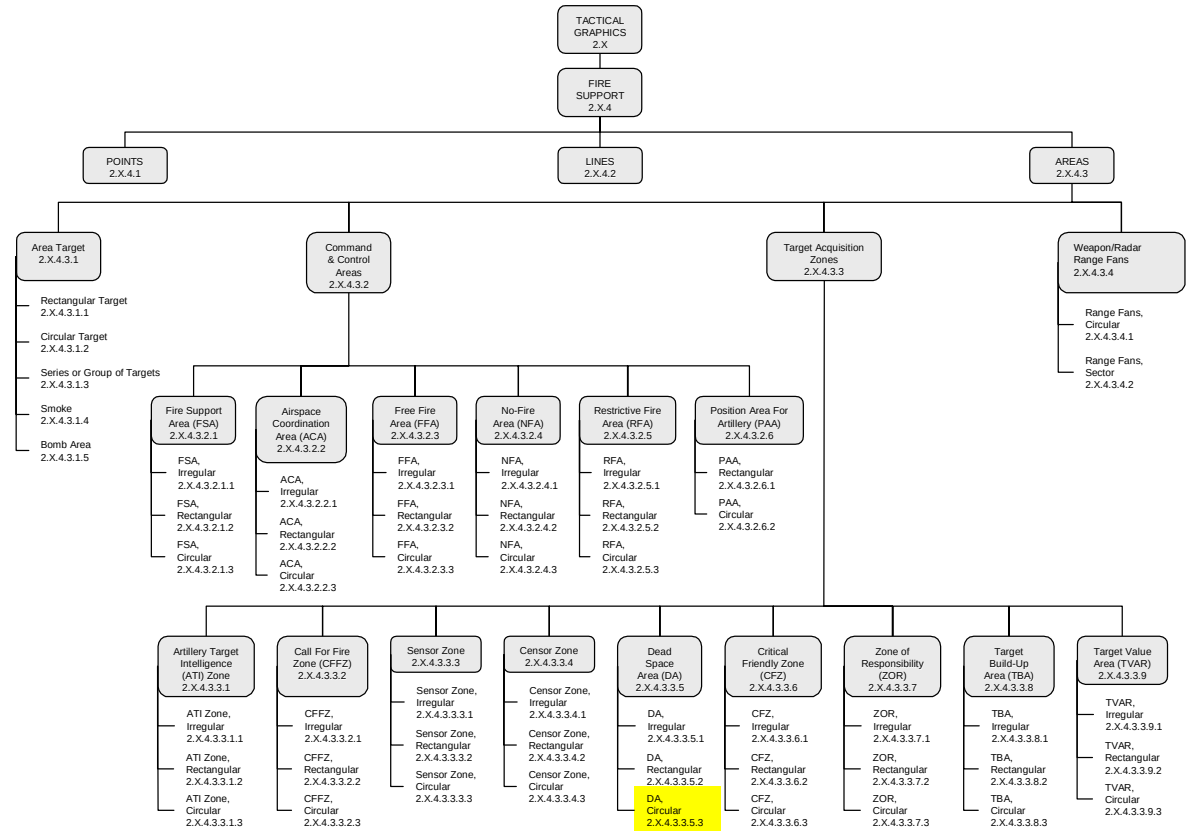


Figure B-17.2. Fire support.

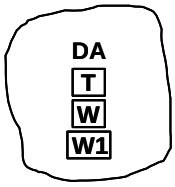
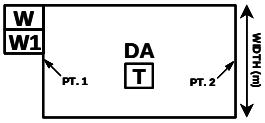
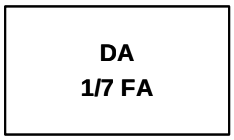
2. Modify Table B-III to reflect restructured hierarchy numbers, provide new symbol IDs for restructured graphics and addition of new graphics' hierarchy numbers and symbol IDs.

HIERARCHY	CODE SCHEME	AFFILIATION	CATEGORY	STATUS	FUNCTION ID			SIZE/MOBILITY	COUNTRY CODE	ORDER OF BATTLE	DESCRIPTION
2.X.4	G	*	F	*	--	--	--	**	**	X	FIRE SUPPORT
2.X.4.1	G	*	F	*	P-	--	--	**	**	X	POINT
2.X.4.1.1	G	*	F	*	PT	--	--	**	**	X	TARGET
2.X.4.1.1.1	G	*	F	*	PT	S-	--	**	**	X	POINT/SINGLE TARGET
2.X.4.1.1.2	G	*	F	*	PT	N-	--	**	**	X	NUCLEAR TARGET
2.X.4.1.2	G	*	F	*	PC	--	--	**	**	X	COMMAND AND CONTROL
2.X.4.1.2.1	G	*	F	*	PC	F-	--	**	**	X	FIRE SUPPORT STATION
2.X.4.1.2.2	G	*	F	*	PC	S-	--	**	**	X	SURVEY CONTROL POINT (SCP)
2.X.4.1.2.3	G	*	F	*	PC	B-	--	**	**	X	FIRING POINT
2.X.4.1.2.4	G	*	F	*	PC	R-	--	**	**	X	RELOAD POINT
2.X.4.1.2.5	G	*	F	*	PC	H-	--	**	**	X	HIDE POINT
2.X.4.1.2.6	G	*	F	*	PC	L-	--	**	**	X	LAUNCH POINT
2.X.4.2	G	*	F	*	L-	--	--	**	**	X	LINES
2.X.4.2.1	G	*	F	*	LT	--	--	**	**	X	LINEAR TARGET
2.X.4.2.1.1	G	*	F	*	LT	S-	--	**	**	X	LINEAR SMOKE TARGET
2.X.4.2.1.2	G	*	F	*	LT	F-	--	**	**	X	FINAL PROTECTIVE FIRE (FPF)
2.X.4.2.2	G	*	F	*	LC	--	--	**	**	X	COMMANDAND CONTROL
2.X.4.2.2.1	G	*	F	*	LC	F-	--	**	**	X	FIRE SUPPORT COORDINATION LINE (FSCL)
2.X.4.2.2.2	G	*	F	*	LC	C-	--	**	**	X	COORDINATED FIRE LINE (CFL)
2.X.4.2.2.3	G	*	F	*	LC	N-	--	**	**	X	NO-FIRE LINE (NFL)
2.X.4.2.2.4	G	*	F	*	LC	R-	--	**	**	X	RESTRICTIVE FIRE LINE (RFL)
2.X.4.3	G	*	F	*	A-	--	--	**	**	X	AREAS
2.X.4.3.1	G	*	F	*	AT	--	--	**	**	X	AREA TARGET
2.X.4.3.1.1	G	*	F	*	AT	C-	--	**	**	X	CIRCULAR TARGET
2.X.4.3.1.2	G	*	F	*	AT	R-	--	**	**	X	RECTANGULAR TARGET
2.X.4.3.1.3	G	*	F	*	AT	G-	--	**	**	X	SERIES OR GROUP OF TARGETS
2.X.4.3.1.4	G	*	F	*	AT	S-	--	**	**	X	SMOKE
2.X.4.3.1.5	G	*	F	*	AT	B-	--	**	**	X	BOMB AREA
2.X.4.3.2	G	*	F	*	AC	--	--	**	**	X	COMMAND AND CONTROL
2.X.4.3.2.1	G	*	F	*	AC	S-	--	**	**	X	FIRE SUPPORT AREA (FSA)
2.X.4.3.2.1.1	G	*	F	*	AC	SI	--	**	**	X	FIRE SUPPORT AREA (FSA), IRREGULAR
2.X.4.3.2.1.2	G	*	F	*	AC	SR	--	**	**	X	FIRE SUPPORT AREA (FSA), RECTANGULAR
2.X.4.3.2.1.3	G	*	F	*	AC	SC	--	**	**	X	FIRE SUPPORT AREA (FSA), CIRCULAR
2.X.4.3.2.2	G	*	F	*	AC	A-	--	**	**	X	AIRSPACE COORDINATION AREA (ACA)
2.X.4.3.2.2.1	G	*	F	*	AC	AI	--	**	**	X	AIRSPACE COORDINATION AREA (ACA), IRREGULAR
2.X.4.3.2.2.2	G	*	F	*	AC	AR	--	**	**	X	AIRSPACE COORDINATION AREA (ACA), RECTANGULAR
2.X.4.3.2.2.3	G	*	F	*	AC	AC	--	**	**	X	AIRSPACE COORDINATION AREA (ACA), CIRCULAR
2.X.4.3.2.3	G	*	F	*	AC	F-	--	**	**	X	FREE FIRE AREA (FFA)
2.X.4.3.2.3.1	G	*	F	*	AC	FI	--	**	**	X	FREE FIRE AREA (FFA), IRREGULAR
2.X.4.3.2.3.2	G	*	F	*	AC	FR	--	**	**	X	FREE FIRE AREA (FFA), RECTANGULAR
2.X.4.3.2.3.3	G	*	F	*	AC	FC	--	**	**	X	FREE FIRE AREA (FFA), CIRCULAR
2.X.4.3.2.4	G	*	F	*	AC	N-	--	**	**	X	NO-FIRE AREA (NFA)
2.X.4.3.2.4.1	G	*	F	*	AC	NI	--	**	**	X	NO-FIRE AREA (NFA), IRREGULAR
2.X.4.3.2.4.2	G	*	F	*	AC	NR	--	**	**	X	NO-FIRE AREA (NFA), RECTANGULAR
2.X.4.3.2.4.3	G	*	F	*	AC	NC	--	**	**	X	NO-FIRE AREA (NFA), CIRCULAR

Attachment A

HIERARCHY	CODE SCHEME	AFFILIATION	CATEGORY	STATUS	FUNCTION ID			SIZE/MOBILITY	COUNTRY CODE	ORDER OF BATTLE	DESCRIPTION
2.X.4.3.2.5	G	*	F	*	AC	R-	--	**	**	X	RESTRICTIVE FIRE AREA (RFA)
2.X.4.3.2.5.1	G	*	F	*	AC	RI	--	**	**	X	RESTRICTIVE FIRE AREA (RFA), IRREGULAR
2.X.4.3.2.5.2	G	*	F	*	AC	RR	--	**	**	X	RESTRICTIVE FIRE AREA (RFA), RECTANGULAR
2.X.4.3.2.5.3	G	*	F	*	AC	RC	--	**	**	X	RESTRICTIVE FIRE AREA (RFA), CIRCULAR
2.X.4.3.2.6	G	*	F	*	AC	P-	--	**	**	X	POSITION AREA FOR ARTILLERY (PAA)
2.X.4.3.2.6.1	G	*	F	*	AC	PI	--	**	**	X	POSITION AREA FOR ARTILLERY (PAA), IRREGULAR
2.X.4.3.2.6.2	G	*	F	*	AC	PC	--	**	**	X	POSITION AREA FOR ARTILLERY (PAA), CIRCULAR
2.X.4.3.3	G	*	F	*	AZ	--	--	**	**	X	TARGET ACQUISITION ZONES
2.X.4.3.3.1	G	*	F	*	AZ	I-	--	**	**	X	ARTILLERY TARGET INTELLIGENCE (ATI) ZONE
2.X.4.3.3.1.1	G	*	F	*	AZ	II	--	**	**	X	ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, IRREGULAR
2.X.4.3.3.1.2	G	*	F	*	AZ	IR	--	**	**	X	ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, RECTANGULAR
2.X.4.3.3.1.3	G	*	F	*	AZ	IC	--	**	**	X	ARTILLERY TARGET INTELLIGENCE (ATI) ZONE, CIRCULAR
2.X.4.3.3.2	G	*	F	*	AZ	X-	--	**	**	X	CALL FOR FIRE ZONE (CFFZ)
2.X.4.3.3.2.1	G	*	F	*	AZ	XI	--	**	**	X	CALL FOR FIRE ZONE (CFFZ), IRREGULAR
2.X.4.3.3.2.2	G	*	F	*	AZ	XR	--	**	**	X	CALL FOR FIRE ZONE (CFFZ), RECTANGULAR
2.X.4.3.3.2.3	G	*	F	*	AZ	XC	--	**	**	X	CALL FOR FIRE ZONE (CFFZ), CIRCULAR
2.X.4.3.3.3	G	*	F	*	AZ	S-	--	**	**	X	SENSOR ZONE
2.X.4.3.3.3.1	G	*	F	*	AZ	SI	--	**	**	X	SENSOR ZONE, IRREGULAR
2.X.4.3.3.3.2	G	*	F	*	AZ	SR	--	**	**	X	SENSOR ZONE, RECTANGULAR
2.X.4.3.3.3.3	G	*	F	*	AZ	SC	--	**	**	X	SENSOR ZONE, CIRCULAR
2.X.4.3.3.4	G	*	F	*	AZ	C-	--	**	**	X	CENSOR ZONE
2.X.4.3.3.4.1	G	*	F	*	AZ	CI	--	**	**	X	CENSOR ZONE, IRREGULAR
2.X.4.3.3.4.2	G	*	F	*	AZ	CR	--	**	**	X	CENSOR ZONE, RECTANGULAR
2.X.4.3.3.4.3	G	*	F	*	AZ	CC	--	**	**	X	CENSOR ZONE, CIRCULAR
2.X.4.3.3.5	G	*	F	*	AZ	D-	--	**	**	X	DEAD SPACE AREA (DA)
2.X.4.3.3.5.1	G	*	F	*	AZ	DI	--	**	**	X	DEAD SPACE AREA (DA), IRREGULAR
2.X.4.3.3.5.2	G	*	F	*	AZ	DR	--	**	**	X	DEAD SPACE AREA (DA), RECTANGULAR
2.X.4.3.3.5.3	G	*	F	*	AZ	DC	--	**	**	X	DEAD SPACE AREA (DA), CIRCULAR
2.X.4.3.3.6	G	*	F	*	AZ	F-	--	**	**	X	CRITICAL FRIENDLY ZONE (CFZ)
2.X.4.3.3.6.1	G	*	F	*	AZ	FI	--	**	**	X	CRITICAL FRIENDLY ZONE (CFZ), IRREGULAR
2.X.4.3.3.6.2	G	*	F	*	AZ	FR	--	**	**	X	CRITICAL FRIENDLY ZONE (CFZ), RECTANGULAR
2.X.4.3.3.6.3	G	*	F	*	AZ	FR	--	**	**	X	CRITICAL FRIENDLY ZONE (CFZ), CIRCULAR
2.X.4.3.3.7	G	*	F	*	AZ	Z-	--	**	**	X	ZONE OF RESPONSIBILITY (ZOR)
2.X.4.3.3.7.1	G	*	F	*	AZ	ZI	--	**	**	X	ZONE OF RESPONSIBILITY (ZOR), IRREGULAR
2.X.4.3.3.7.2	G	*	F	*	AZ	ZR	--	**	**	X	ZONE OF RESPONSIBILITY (ZOR), RECTANGULAR
2.X.4.3.3.7.3	G	*	F	*	AZ	ZC	--	**	**	X	ZONE OF RESPONSIBILITY (ZOR), CIRCULAR
2.X.4.3.3.8	G	*	F	*	AZ	B-	--	**	**	X	TARGET BUILD-UP AREA (TBA)
2.X.4.3.3.8.1	G	*	F	*	AZ	BI	--	**	**	X	TARGET BUILD-UP AREA (TBA), IRREGULAR
2.X.4.3.3.8.2	G	*	F	*	AZ	BR	--	**	**	X	TARGET BUILD-UP AREA (TBA), RECTANGULAR
2.X.4.3.3.8.3	G	*	F	*	AZ	BC	--	**	**	X	TARGET BUILD-UP AREA (TBA), CIRCULAR
2.X.4.3.3.9	G	*	F	*	AZ	V-	--	**	**	X	TARGET VALUE AREA (TVAR)
2.X.4.3.3.9.1	G	*	F	*	AZ	VI	--	**	**	X	TARGET VALUE AREA (TVAR), IRREGULAR
2.X.4.3.3.9.2	G	*	F	*	AZ	VR	--	**	**	X	TARGET VALUE AREA (TVAR), RECTANGULAR
2.X.4.3.3.9.3	G	*	F	*	AZ	VC	--	**	**	X	TARGET VALUE AREA (TVAR), CIRCULAR
2.X.4.3.4	G	*	F	*	AX	--	--	**	**	X	WEAPON/RADAR RANGE FAN
2.X.4.3.4.1	G	*	F	*	AX	C-	--	**	**	X	WEAPON/RADAR RANGE FAN, CIRCULAR
2.X.4.3.4.2	G	*	F	*	AX	S-	--	**	**	X	WEAPON/RADAR RANGE FAN, SECTOR

3. Modify and amend Table B-IV as needed to agree with Figure B-17.1, B-17.2 and Table B-III as shown above.

DESCRIPTION	STATIC/ DYNAMIC	HIERARCHY / SYM-ID	TACTICAL GRAPHIC
FIRE SUPPORT AREAS TARGET ACQUISITION ZONES DEAD SPACE AREA (DA)	N/A	2.X.4.3.3.5	
FIRE SUPPORT AREAS TARGET ACQUISITION ZONES DEAD SPACE AREA (DA) IRREGULAR <u>Parameters</u> 1. Anchor points. This graphic requires a minimum of three anchor points to define the boundary of the area. Add as many points as necessary to accurately reflect the area's size and shape. 2. Size/Shape. Determined by the anchor points. The information fields should be moveable and scaleable within the area. 3. Orientation. Not applicable.	D	2.X.4.3.3.5.1 G*FPAZDI-- ****X Example	 
FIRE SUPPORT AREAS TARGET ACQUISITION ZONES DEAD SPACE AREA (DA) RECTANGULAR <u>Parameters</u> 1. Anchor Points. This graphic requires two anchor points and a width, defined in meters, to define the boundary of the area. Points 1 and 2 will be located in the center of two opposing sides of the rectangle. 2. Size/Shape. Size: As determined by the anchor points. The anchor points determine the length of the rectangle. The width, defined in meters, will determine the width of the rectangle. Shape: Rectangle. The information fields should be moveable and scaleable. 3. Orientation. As determined by the anchor points.	D	2.X.4.3.3.5.2 G*FPAZDR-- ****X Example	 

Attachment A

DESCRIPTION	STATIC/ DYNAMIC	HIERARCHY / SYM-ID	TACTICAL GRAPHIC
FIRE SUPPORT AREAS TARGET ACQUISITION ZONES DEAD SPACE AREA (DA) CIRCULAR Parameters 1. Anchor Points. This graphic requires one (1) anchor point and a radius. Point 1 defines the center point of the graphic. 2. Size/Shape. Size: The radius, defined in meters, defines the size. Shape: Circle. The information fields should be scaleable within the circle. 3. Orientation. Not applicable.	D	2.X.4.3.3.5.3 G*FPAZDC--****X Example